

| Ref # | Hits | Search Query | DBs | Default Operator | Plurals | Time Stamp |
|-------|------|---|------------------------------------|------------------|---------|------------------|
| S1 | 15 | ("4959540") or ("5250816") or ("5293626") or ("5416861") or ("5430567") or ("5434524") or ("5508835") or ("5515194") or ("5537498") or ("5677778") or ("5708671") or ("5812708") or ("5889903") or ("6008918") or ("6125217")).PN. | USPAT; USOCR | OR | OFF | 2004/10/19 10:56 |
| S2 | 100 | ("6243509" "4473829" "5394490" "5732062" "6004646" "4529275" "4966430" "5216359" "5231281" "5268973" "5317657" "5381235" "5404342" "5530688" "5561656" "5574706" "5574717" "5592322" "5602862" "5602806" "5625620" "5677551" "5684772" "5703855" "5740130" "5793738" "5812519" "5835469" "5848045" "5883863" "5886969" "5889296" "6014348" "6038201" "6052349" "6136402" "6192008" "6240056" "3869572" "4163239" "4363116" "4406939" "4422727" "4427997" "4467340" "4484144" "4526474" "4531814" "4566092" "4580449").pn. ("4633285" "4761775" "4791070" "4814848" "4815856" "4827469" "4835595" "4845425" "4866291" "4866499" "4877680" "4900688" "4911776" "4951280" "4956714" "4956713" RE33356 "4959722" "4965212" "4977096" "4985616" "4992841" "5027216" "5057926" "5210738" "5216657" "5249170" "5321294" "5323374" "5339301" "5365535" "5400304" "5408105" "5408568" "5430567" "5434524" "5469422" "5488239" "5490126" "5510285" "5521992" "5526328" "5578511" "5581094" "5605856" "5636194" "5648952" "5710618" "5723884" "5737108").pn. | USPAT | OR | OFF | 2004/10/12 15:11 |
| S3 | 2 | ((6788867) or (6785458)).PN. | USPAT; USOCR | OR | OFF | 2004/10/12 15:11 |
| S4 | 22 | (clad\$5 same core\$1) and ((vertical with grat\$5) same (horizontal with grat\$5)) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | OFF | 2004/10/12 15:33 |

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|-----|------|---|------------------------------------|----|-----|------------------|
| S5 | 9 | (US-6788867-\$ or US-6785458-\$ or US-6243509-\$ or US-4966430-\$ or US-5416861-\$ or US-5708671-\$ or US-6031243-\$ or US-6330265-\$).did. or (US-20030068130-\$).did. | US-PGPUB; USPAT | OR | OFF | 2004/10/12 15:39 |
| S6 | 2638 | 385/37.ccls. | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | OFF | 2004/10/12 15:54 |
| S7 | 6 | ("4169001" "4699449" "4758063" "4772787" "4871224" "4904036").PN. | USPAT | OR | OFF | 2004/10/12 15:55 |
| S8 | 44 | "4966430".URPN. | USPAT | OR | OFF | 2004/10/12 15:56 |
| S9 | 6 | ("4682323" "4871224" "5157461" "5255111" "5263111" "5276745").PN. | USPAT | OR | OFF | 2004/10/12 16:00 |
| S10 | 33 | "5416861".URPN. | USPAT | OR | OFF | 2004/10/12 16:01 |
| S11 | 9 | ("4801184" "4802153" "4948225" "4955977" "4991919" "5058970" "5070488" "5131068" "5179615").PN. | USPAT | OR | OFF | 2004/10/12 16:05 |
| S12 | 14 | "5276745".URPN. | USPAT | OR | OFF | 2004/10/12 16:05 |
| S13 | 6 | ("4682323" "4871224" "5157461" "5255111" "5263111" "5276745").PN. | USPAT | OR | OFF | 2004/10/12 16:06 |
| S14 | 33 | "5416861".URPN. | USPAT | OR | OFF | 2004/10/12 16:06 |
| S15 | 3 | ("4966430" "5159700" "5200631").PN. | USPAT | OR | OFF | 2004/10/12 16:07 |
| S16 | 32 | "5485021".URPN. | USPAT | OR | OFF | 2004/10/12 16:07 |
| S17 | 10 | ("4730327" "4831631" "5046802" "5079772" "5349593" "5349598" "5390202" "5416790" "5446573" "5471494").PN. | USPAT | OR | OFF | 2004/10/12 16:08 |
| S18 | 3 | "5708671".URPN. | USPAT | OR | OFF | 2004/10/12 16:09 |
| S19 | 3 | ("4658403" "5202896" "5337328").PN. | USPAT | OR | OFF | 2004/10/12 16:09 |
| S20 | 13 | "6031243".URPN. | USPAT | OR | OFF | 2004/10/12 16:10 |
| S21 | 9 | "6243509".URPN. | USPAT | OR | OFF | 2004/10/13 08:06 |
| S22 | 6 | ("4732446" "4772787" "4966430" "5170448" "5357122" "5400419").PN. | USPAT | OR | OFF | 2004/10/13 08:07 |
| S23 | 2 | "6351576".URPN. | USPAT | OR | OFF | 2004/10/13 08:18 |

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| S24 | 11 | ("5208879" "5373570" "5416861" "5508835" "5701374" "5812708" "5966478" "5999670" "6052498" "6125217" "6208791").PN. | USPAT | OR | OFF | 2004/10/13 08:18 |
| S25 | 2 | "6351576".URPN. | USPAT | OR | OFF | 2004/10/13 08:35 |
| S26 | 11 | ("5208879" "5373570" "5416861" "5508835" "5701374" "5812708" "5966478" "5999670" "6052498" "6125217" "6208791").PN. | USPAT | OR | OFF | 2004/10/13 08:35 |
| S27 | 4 | "6393169".URPN. | USPAT | OR | OFF | 2004/10/13 08:35 |
| S28 | 380 | optical and (back with side with die) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | OFF | 2004/10/13 08:47 |
| S29 | 17 | (optical and (back with side with die)) and (diffract\$5 with grat\$5) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | OFF | 2004/10/13 08:52 |
| S30 | 37 | (optical and (back with side with die)) and grat\$5 | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | OFF | 2004/10/13 08:52 |
| S31 | 37 | ((optical and (back with side with die)) and grat\$5) not ("5416861". PN. and ("5276745".URPN.)) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | OFF | 2004/10/13 08:52 |
| S32 | 20 | ((optical and (back with side with die)) and grat\$5) not ((optical and (back with side with die)) and (diffract\$5 with grat\$5)) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | OFF | 2004/10/13 09:02 |
| S33 | 15669 | 385/14,15,31-38,49-50,129-132. ccis. | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | OFF | 2004/10/13 09:02 |
| S34 | 1892 | 385/14,15,31-38,49-50,129-132. ccis. and (diffract\$4 near3 grat\$5) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | OFF | 2004/10/13 09:02 |
| S35 | 408 | (385/14,15,31-38,49-50,129-132. ccis. and (diffract\$4 near3 grat\$5)) and (integrat\$4 near3 circuit\$1) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | OFF | 2004/10/13 09:03 |

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|-----|-------|--|------------------------------------|----|-----|------------------|
| S36 | 106 | ((385/14,15,31-38,49-50,129-132.ccls. and (diffract\$4 near3 grat\$5)) and (integrat\$4 near3 circuit\$1)) and vertical and horizontal | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | OFF | 2004/10/13 09:03 |
| S37 | 62 | (((385/14,15,31-38,49-50,129-132.ccls. and (diffract\$4 near3 grat\$5)) and (integrat\$4 near3 circuit\$1)) and vertical and horizontal) and core and clad\$5 | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | OFF | 2004/10/13 09:15 |
| S38 | 8261 | core same ((horizontal with horizontal) same (horizontal with vertical)) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | OFF | 2004/10/13 09:16 |
| S39 | 57 | (core same ((horizontal with horizontal) same (horizontal with vertical))) and (diffract\$4 with grat\$5) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | OFF | 2004/10/13 09:16 |
| S40 | 47 | ((core same ((horizontal with horizontal) same (horizontal with vertical))) and (diffract\$4 with grat\$5)) not (((385/14,15,31-38,49-50,129-132.ccls. and (diffract\$4 near3 grat\$5)) and (integrat\$4 near3 circuit\$1)) and vertical and horizontal) and core and clad\$5) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | OFF | 2004/10/13 09:17 |
| S41 | 271 | (direction\$3 near5 grating\$1) same direction\$1 same core\$1 | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | OFF | 2004/10/19 10:57 |
| S42 | 16199 | core\$1 same clad\$4 same (layer\$1 or planar) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | OFF | 2004/10/19 13:14 |
| S43 | 45 | (core\$1 same clad\$4 same (layer\$1 or planar)) and (("3D" or (three adj dimension\$3) or omni\$direction\$3)) with grating\$1 | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | OFF | 2004/10/19 10:59 |
| S44 | 45 | (core\$1 same clad\$4 same (layer\$1 or planar)) and (("3D" or (three adj dimension\$3) or omni\$direction\$3)) with grating\$1) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | OFF | 2004/10/19 13:41 |
| S45 | 2 | core\$1 same clad\$4 same (layer\$1 or planar) same (fan\$out or (fan with out)) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | OFF | 2004/10/19 13:15 |

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|-----|------|--|------------------------------------|----|-----|------------------|
| S46 | 45 | (core\$1 same clad\$4 same (layer\$1 or planar)) and (((3D" or (three adj dimension\$3) or multi\$direction\$3)) with grating\$1) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | OFF | 2004/10/19 13:43 |
| S47 | 0 | ((core\$1 same clad\$4 same (layer\$1 or planar)) and (((3D" or (three adj dimension\$3) or multi\$direction\$3)) with grating\$1)) not ((core\$1 same clad\$4 same (layer\$1 or planar)) and (((3D" or (three adj dimension\$3) or omni\$direction\$3)) with grating\$1)) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | OFF | 2004/10/19 13:43 |
| S48 | 205 | optical with clock with distribution | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | OFF | 2004/10/19 14:38 |
| S49 | 8 | (optical with clock with distribution) with (layer\$1 or planar\$1) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | OFF | 2004/10/19 14:20 |
| S50 | 0 | "20040071387".URPN. | USPAT | OR | OFF | 2004/10/19 14:19 |
| S51 | 8 | (polygonal with grating\$1) and (optical with clock) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | OFF | 2004/10/19 14:21 |
| S52 | 33 | (optical with clock with distribution) and (cladding\$1 same core\$1) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | OFF | 2004/10/19 15:00 |
| S53 | 1078 | grating\$1 with core\$1 with cladding\$1 | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | OFF | 2004/10/19 15:01 |
| S54 | 11 | (grating\$1 with core\$1 with cladding\$1) and (optical with clock) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | OFF | 2004/10/19 15:01 |
| S55 | 2130 | grating\$1 with cladding\$1 | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | OFF | 2004/10/19 15:01 |
| S56 | 31 | (grating\$1 with cladding\$1) and (optical with clock) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | OFF | 2004/10/19 15:03 |

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| S57 | 20 | ((grating\$1 with cladding\$1) and (optical with clock)) and planar | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | OFF | 2004/10/19 15:08 |
| S58 | 1 | write with wavelength with vertical with reflection with absorption | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | OFF | 2004/10/19 15:09 |
| S59 | 19 | write with wavelength\$1 with reflection\$1 with absorption | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | OFF | 2004/10/21 08:34 |
| S60 | 3037 | reflection with absorption with layer\$1 | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | OFF | 2004/10/21 08:34 |
| S61 | 27 | (reflection with absorption with layer\$1) and (optical with clock) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | OFF | 2005/03/10 08:59 |
| S62 | 3037 | (reflection with absorption with layer\$1) and (layer\$1 or planar) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | OFF | 2004/10/21 08:38 |
| S63 | 5 | ("6807352") or ("6785458") or ("6788867") or ("6690081") or ("6528349").PN. | US-PGPUB; USPAT | OR | OFF | 2005/02/25 14:05 |
| S64 | 124 | ((clad or cladding) same core) and (grating same vertical same horizontal) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/02/25 16:07 |
| S65 | 10 | ("5111467" "5384797" "5818066" "6031243").PN. OR ("6330265").URPN. | US-PGPUB; USPAT; USOCR | OR | ON | 2005/02/25 15:48 |

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|-----|-----|--|------------------------|----|-----|------------------|
| S66 | 144 | ("4007978" "4114257" "4240849" "4609252" "4630883" "4749245" "4750799" "4755866" "4762381" "4776661" "4787691" "4871224" "4969712" "5009476" "5054870" "5054872" "5059475" "5061028" "5104771" "5159700" "5170448" "5179601" "5192716" "5194548" "5208879" "5208892" "5219710" "5219787" "5220628" "5237434" "5247593" "5249245" "5263111" "5268973" "5317657" "5332690" "5352566" "5358896" "5371818" "5375184" "5394490" "5416861" "5428698" "5444811" "5459232" "5465860" "5469518" "5488682" "5500540" "5513021" "5513283" "5521992" "5525190" "5541039" "5546480" "5555326" "5561733" "5562838" "5568574" "5581646" "5594093" "5611008" "5621837" "5638469" "5652811" "5658966" "5659648" "5708178" "5723176" "5751867" "5757989" "5761350" "5764820" "5770466" "5770851" "5796883" "5801439" "5817541" "5818983" "5835646" "5854868" "5902715" "5917980" "6017681" "6054761").PN. OR ("6343171").URPN. | US-PGPUB; USPAT; USOCR | OR | ON | 2005/02/25 15:52 |
| S67 | 1 | ("4013000").PN. | US-PGPUB; USPAT | OR | OFF | 2005/02/25 15:52 |
| S68 | 44 | ("3753157" "3908121" "3990780" "4369202" "4394060" "4425023" "4453801" "4455063" "4455064" "4470661" "4523803" "4637684" "4693548" "4707059").PN. OR ("4776661").URPN. | US-PGPUB; USPAT; USOCR | OR | ON | 2005/02/25 15:53 |

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| S69 | 91 | ("4776661" "5061027" "5101460" "5164930" "5193130" "5200631" "5237434" "5266794" "5268985" "5276748" "5295208" "5410622" "5412743" "5419762").PN. OR ("5568574").URPN. | US-PGPUB; USPAT; USOCR | OR | ON | 2005/02/25 15:58 |
| S70 | 50 | ("3429040" "4070516" "4169001" "4573067" "4626878" "4699449" "4729618" "4758063" "4871224" "4966430" "5049982").PN. OR ("5200631").URPN. | US-PGPUB; USPAT; USOCR | OR | ON | 2005/02/25 15:59 |
| S71 | 16 | ("5009476" "5208879" "5349599" "5416861" "5508835" "5568574").PN. OR ("5812708").URPN. | US-PGPUB; USPAT; USOCR | OR | ON | 2005/02/25 16:02 |
| S72 | 14 | ("5208879" "5373570" "5416861" "5508835" "5701374" "5812708" "5966478" "5999670" "6052498" "6125217" "6208791").PN. OR ("6351576").URPN. | US-PGPUB; USPAT; USOCR | OR | ON | 2005/02/25 16:04 |
| S73 | 241 | ((clad or cladding) same core) and grating and (clock or clocking) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/02/25 16:22 |
| S74 | 78 | (((clad or cladding) same core) same grating) and (clock or clocking) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/02/25 16:08 |
| S75 | 0 | ("2004/0071387").URPN. | USPAT | OR | ON | 2005/02/25 16:20 |
| S76 | 163 | S73 not S74 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/02/25 16:22 |
| S77 | 1 | ("2002/0109074").URPN. | USPAT | OR | ON | 2005/02/25 16:30 |

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|--|--------------------|---|------------------------------|----|----|------------------|
| S78 | 128 | ("3766370" "3802967" "4006989" "4174422" "4284329" "4404265" "4482906" "4484332" "4523211" "4661176" "4777613" "4793872" "4802182" "4815084" "4846926" "4855249" "4876219" "4882300" "4891091" "4896194" "4912087" "4928154" "4963508" "4963949" "4999842" "5051790" "5060031" "5063166" "5081062" "5116461" "5127067" "5141894" "5144409" "5155658" "5159413" "5173474" "5221367" "5225031" "5248564" "5260394" "5270298" "5286985" "5293050" "5310707" "5326721" "5356831" "5358925" "5391515" "5393352" "5404581" "5418216" "5418389" "5436759" "5442191" "5444016" "5450812" "5478653" "5480829" "5482003" "5514484" "5528414" "5556463" "5576879" "5588995" "5606184" "5614739" "5640267" "5670798" "5674366" "5729394" "5729641" "5731220" "5733641" "5735949" "5741724" "5764676" "5777762" "5778018" "5778116" "5790583" "5801105" "5810923" "5825799" "5828080" "5830270" "5857049" "5858814" "5861966" "5874860" "5883996" "5912068" "5926496" "5937285" "5981400" "5990495" "5995359" "6002375" "6008762" "6020222" "6045626" "6055179" "6058131" "6064078" "6064092" "6096584" "6103008" "6107653" "6113690" "6114996" "6121642" "6128178" "6136666" "6137603" "6143072" "61446906" "61473474" "6174755" "6180252" "6190496" "6194144") | US-PGPUB; USPAT; USOCR | OR | ON | 2005/02/25 16:31 |
| Search History | 8/2/05, 2:48:27 PM | Page 8 | | | | |
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| S79 | 116 | ("3529759" "4007978" "4112196" "4114257" "4126758" "4240849" "4609252" "4630883" "4749245" "4750799" "4755866" "4762381" "4776661" "4787691" "4805038" "4846931" "4871224" "4883561" "4892374" "4941255" "4969712" "5009476" "5011550" "5054870" "5054872" "5059475" "5061028" "5073230" "5104771" "5159700" "5170448" "5179601" "5192716" "5194548" "5201996" "5208879" "5208892" "5219710" "5219787" "5220628" "5237434" "5247593" "5249245" "5262351" "5263111" "5268973" "5291567" "5317657" "5332690" "5352566" "5358896" "5371818" "5375184" "5376229" "5394490" "5401983" "5416861" "5428698" "5444811" "5455202" "5459232" "5465860" "5469518" "5488682" "5500540" "5513021" "5513283" "5521992" "5525190" "5534466" "5541039" "5546480" "5555326" "5561733" "5562838" "5568574" "5581646" "5593917" "5594093" "5611008" "5621837" "5638469" "5652811" "5658966" "5659648" "5665648" "5708178" "5723176" "5744379" "5751867" "5757445" "5757989" "5761350" "5764820" "5770466" "5770851" "5796883" "5801439" "5817541" "5818983" "5824595" "5835646" "5854868" "5858814" "5863809" "5902715" "5917980" "5980831" "6017681" "6031945" "6054761" "6091879" "6101371" "6163957" "6226847" "6226847" "6669801") | US-PGPUB; USPAT; USOCR | OR | ON | 2005/02/25 16:33 |
| Search History | 8/2/05, 2:26:57 PM | Page 10 PN OR 16669801") C:\Documents and Settings\lepmisto\My Documents\EAST\Workspaces\10630411.wsp URPN. | | | | |

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|-----|------|---|---|----|-----|------------------|
| S81 | 1480 | (grating with (clad or cladding) with core) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/03/09 17:07 |
| S82 | 302 | (grating same ((first and second) with (clad or cladding)) same core) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/03/09 17:07 |
| S83 | 13 | S81 and (optical with clock) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/03/10 08:59 |
| S84 | 12 | S82 and (optical with clock) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/03/09 17:07 |
| S85 | 240 | (reflection near2 absorption near2 layer\$1) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | OFF | 2005/03/10 08:59 |
| S86 | 1 | S85 and (optical with clock) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/03/10 08:59 |


PALM INTRANET

 Day : Tuesday
 Date: 8/2/2005
 Time: 15:21:54
Inventor Name Search Result

Your Search was:

Last Name = MULE

First Name = TONY

| Application# | Patent# | Status | Date Filed | Title | Inventor Name |
|---------------------------------|----------------|---------------|-------------------|---|----------------------|
| <u>60498419</u> | Not Issued | 159 | 08/28/2003 | INPUT/OUTPUT LEADS, LITHOGRAPHY AND NANO-INDENTATIONS | MULE, TONY |
| <u>60399975</u> | Not Issued | 159 | 07/31/2002 | UNFOCUSSED GUIDED-WAVE OPTICAL CLOCK DISTRIBUTION NETWORK AND METHOD | MULE, TONY |
| <u>60365443</u> | Not Issued | 159 | 03/19/2002 | HIGH-I/O DENSITY OPTOELECTRONIC PROBE CARD FOR WAFER-LEVEL TESTS OF ELECTRICAL AND OPTICAL INTERCONNECT COMPONENTS AND METHODS OF FABRICATION | MULE, TONY |
| <u>60363057</u> | Not Issued | 159 | 03/11/2002 | MONOLITHIC CHIP-LEVEL OPTICAL WAVEGUIDES FORMED FROM LOW-K NANO AIR-GAP MATERIALS AND METHODS | MULE, TONY |
| <u>60290118</u> | Not Issued | 159 | 05/10/2001 | MONOLITHIC CHIP-LEVEL OPTICAL WAVEGUIDES FORMED FROM A LOW-K NANO AIR GAP MATERIALS AND METHODS | MULE, TONY |
| <u>60268143</u> | Not Issued | 159 | 02/11/2001 | SINGLE-SPLIT-REGION OPTICAL WAVEGUIDE H-TREE DISTRIBUTION FOR INTRA-CHIP AND INTRA-BOARD/INTER-CHIP GUIDED-WAVE OPTICAL CLOCK AND DATA DISTRIBUTION | MULE, TONY |
| <u>60268142</u> | Not Issued | 159 | 02/11/2001 | GUIDED-WAVE OPTICAL INTERCONNECTION USING VOLUME GRATING COUPLER AND AIR GAP TECHNOLOGIES | MULE, TONY |

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| | | | | EMBEDDED WITHIN A MICROELECTRIC PACKAGE | |
| <u>10895685</u> | Not Issued | 092 | 07/21/2004 | GUIDED-WAVE OPTICAL INTERCONNECTIONS EMBEDDED WITHIN A MICROELECTRONIC WAFER-LEVEL BATCH PACKAGE | MULE, TONY |
| <u>10734075</u> | 6788867 | 150 | 12/11/2003 | BACKPLANE, PRINTED WIRING BOARD, AND/OR MULTI-CHIP MODULE-LEVEL OPTICAL INTERCONNECT LAYER HAVING EMBEDDED AIR-GAP TECHNOLOGIES AND METHODS OF FABRICATION | MULE, TONY |
| <u>10699287</u> | Not Issued | 019 | 10/31/2003 | SYSTEMS AND METHODS FOR THREE-DIMENSIONAL LITHOGRAPHY AND NANO-INDENTATION | MULE, TONY |
| <u>10630411</u> | Not Issued | 071 | 07/30/2003 | BACK-SIDE-OF-DIE, THROUGH-WAFER GUIDED-WAVE OPTICAL CLOCK DISTRIBUTION NETWORKS, METHOD OF FABRICATION THEREOF, AND USES THEREOF | MULE, TONY |
| <u>10390873</u> | Not Issued | 071 | 03/17/2003 | HIGH INPUT/OUTPUT DENSITY OPTOELECTRONIC PROBE CARD FOR WAFER-LEVEL TEST OF ELECTRICAL AND OPTICAL INTERCONNECT COMPONENTS, METHODS OF FABRICATION, AND METHODS OF USE | MULE, TONY |
| <u>10142601</u> | Not Issued | 094 | 05/10/2002 | OPTICAL WAVEGUIDES FORMED FROM NANO AIR-GAP INTER-LAYER DIELECTRIC MATERIALS AND METHODS OF FABRICATION THEREOF | MULE, TONY |
| <u>10135314</u> | Not Issued | 164 | 04/29/2002 | BACKPLANE, PRINTED WIRING BOARD, AND/OR MULTI-CHIP MODULE-LEVEL OPTICAL INTERCONNECT LAYER HAVING EMBEDDED AIR-GAP TECHNOLOGIES AND METHODS OF FABRICATION | MULE, TONY |
| <u>10074420</u> | 6785458 | 150 | 02/11/2002 | GUIDED-WAVE OPTICAL | MULE, TONY |

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|----------|---------|-----|------------|--|------------|
| | | | | INTERCONNECTIONS EMBEDDED WITHIN A MICROELECTRONIC WAFER- LEVEL BATCH PACKAGE | |
| 10074067 | 6807352 | 150 | 02/11/2002 | OPTICAL WAVEGUIDES WITH EMBEDDED AIR-GAP CLADDING LAYER AND METHODS OF FABRICATION THEREOF | MULE, TONY |

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Last Name = MEINDL

First Name = JAMES

| Application# | Patent# | Status | Date Filed | Title | Inventor Name |
|---------------------------------|------------|--------|------------|---|------------------|
| <u>60687902</u> | Not Issued | 020 | 06/06/2005 | INTEGRATED MICROFLUIDIC CHIP FABRICATION AND INTERCONNECTION METHODS | MEINDL, JAMES D. |
| <u>60677166</u> | Not Issued | 020 | 05/03/2005 | FORMATION OF INTEGRATED SYSTEMS FOR CHIP COOLING AND MICROFLUIDICS | MEINDL, JAMES D. |
| <u>60656251</u> | Not Issued | 020 | 02/25/2005 | METHOD TO CONTROL ELECTROMIGRATION BY USING EXTRA SLEEP TRANSISTORS | MEINDL, JAMES D. |
| <u>60628406</u> | Not Issued | 020 | 11/16/2004 | ELECTRICAL, OPTICAL AND MICROFLUIDIC I/O INTERCONNECTIONS, METHODS OF FABRICATION THEREOF, AND METHODS OF USE THEREOF | MEINDL, JAMES D. |
| <u>60605871</u> | Not Issued | 020 | 08/31/2004 | PROBE MODULE FOR TESTING CHIPS WITH ELECTRICAL AND OPTICAL INPUT/OUTPUT INTERCONNECTS, METHODS OF USE, AND METHODS OF FABRICATION | MEINDL, JAMES D. |
| <u>60525111</u> | Not Issued | 159 | 11/25/2003 | MODIFIED PARTIAL INDUCTANCE EXTRACTION METHOD | MEINDL, JAMES |
| <u>60498419</u> | Not Issued | 159 | 08/28/2003 | INPUT/OUTPUT LEADS, LITHOGRAPHY AND NANO-INDENTATIONS | MEINDL, JAMES D. |
| <u>60457381</u> | Not Issued | 159 | 03/25/2003 | OPTICAL AND ELECTRICAL I/O INTERCONNECT FABRICATION AND CONFIGURATIONS | MEINDL, JAMES D. |
| <u>60455362</u> | Not Issued | 159 | 03/17/2003 | SURFACE NORMAL CURVED OPTICAL, ELECTRICAL, AND RF- | MEINDL, JAMES |

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| | | | | INPUT/OUTPUT INTERCONNECTIONS FOR BOARD/PACKAGE AND CHIP LEVEL INTERCONNECTS | |
| <u>60448344</u> | Not Issued | 159 | 02/18/2003 | METHODS OF INTERCONNECTING A FIBER OPTIC CABLE/RIBBON/BUNDLE CLOSE OR DIRECTLY TO THE CHIP INPUT/OUTPUT INTERCONNECTS | MEINDL, JAMES |
| <u>60447468</u> | Not Issued | 159 | 02/14/2003 | SURFACE NORMAL CURVED OPTICAL, ELECTRICAL, AND RF-INPUT/OUTPUT INTERCONNECTIONS FOR BOARD/PACKAGE AND CHIP LEVEL INTERCONNECTS | MEINDL, JAMES |
| <u>60405934</u> | Not Issued | 159 | 08/26/2002 | COMPLIANT ELECTRICAL, OPTICAL, AND RF POLYMER PILLARS AND POLYMER CONNECTORS | MEINDL, JAMES D. |
| <u>60399975</u> | Not Issued | 159 | 07/31/2002 | UNFOCUSSED GUIDED-WAVE OPTICAL CLOCK DISTRIBUTION NETWORK AND METHOD | MEINDL, JAMES D. |
| <u>60377416</u> | Not Issued | 159 | 05/03/2002 | METHODS OF INTERCONNECTING CHIP-TO- MODULE ELECTRICAL, OPTICAL, AND RF INPUT/OUTPUT INTERCONNECTS USING MICRO-CONNECTORS AND PILLARS | MEINDL, JAMES D. |
| <u>60365443</u> | Not Issued | 159 | 03/19/2002 | HIGH-I/O DENSITY OPTOELECTRONIC PROBE CARD FOR WAFER-LEVEL TESTS OF ELECTRICAL AND OPTICAL INTERCONNECT COMPONENTS AND METHODS OF FABRICATION | MEINDL, JAMES D. |
| <u>60363057</u> | Not Issued | 159 | 03/11/2002 | MONOLITHIC CHIP-LEVEL OPTICAL WAVEGUIDES FORMED FROM LOW-K NANO AIR-GAP MATERIALS AND METHODS | MEINDL, JAMES D. |
| <u>60335808</u> | Not Issued | 159 | 10/31/2001 | WATER LEVEL PACKAGE UTILIZING PILLARS OF VARIABLE MATERIALS TO | MEINDL, JAMES D. |

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| | | | | ENABLE THREE-DIMENSIONAL (X-Y-Z) COMPLIANT LEADS | |
| <u>60329873</u> | Not Issued | 159 | 10/17/2001 | DYNAMIC SUPPLY VOLTAGE FOR POWER REDUCTION | MEINDL, JAMES D. |
| <u>60329872</u> | Not Issued | 159 | 10/17/2001 | DYNAMIC BODY BIAS FOR STATIC POWER REDUCTION | MEINDL, JAMES D. |
| <u>60290118</u> | Not Issued | 159 | 05/10/2001 | MONOLITHIC CHIP-LEVEL OPTICAL WAVEGUIDES FORMED FROM A LOW-K NANO AIR GAP MATERIALS AND METHODS | MEINDL, JAMES D. |
| <u>60289952</u> | Not Issued | 159 | 05/10/2001 | ELECTRICALLY SELF COMPENSATING AND ENHANCING X-Y-Z COMPLIANT INTERCONNECT LEADS FOR ELECTRONIC PACKAGES TO ENHANCE SIGNAL, CURRENT, AND CLOCK DISTRIBUTION FOR A CHIP | MEINDL, JAMES D. |
| <u>60287440</u> | Not Issued | 159 | 04/30/2001 | PASSIVE THIN-FILM INTEGRATED OPTICAL GUIDED WAVE INTERCONNECTION LAYER USING AIR-GAP AND VOLUME GRATING COUPLER TECHNOLOGIES FOR MULTI-CHIP MODULE, PRINTED WIRING BOARD, AND BACKPLANE APPLICATIONS AND METHOD | MEINDL, JAMES D. |
| <u>60268143</u> | Not Issued | 159 | 02/11/2001 | SINGLE-SPLIT-REGION OPTICAL WAVEGUIDE H-TREE DISTRIBUTION FOR INTRA-CHIP AND INTRA-BOARD/INTER-CHIP GUIDED-WAVE OPTICAL CLOCK AND DATA DISTRIBUTION | MEINDL, JAMES D. |
| <u>60268142</u> | Not Issued | 159 | 02/11/2001 | GUIDED-WAVE OPTICAL INTERCONNECTION USING VOLUME GRATING COUPLER AND AIR GAP TECHNOLOGIES EMBEDDED WITHIN A MICROELECTRIC PACKAGE | MEINDL, JAMES D. |
| <u>60249897</u> | Not Issued | 159 | 11/18/2000 | 3-DIMENSIONAL ULTRA HIGH COMPLIANT LEADS | MEINDL, JAMES D. |
| <u>60201639</u> | Not | 159 | 05/03/2000 | PHASE MASK | MEINDL, JAMES |

| | Issued | | | D. |
|-----------------|------------|-----|------------|--|
| <u>60161437</u> | Not Issued | 159 | 10/26/1999 | MONOLITHICALLY FABRICATED COMPLIANT WAFER LEVEL PACKAGE WITH WAFER LEVEL RELIABILITY AND FUNCTIONALITY TESTABILITY |
| <u>60161435</u> | Not Issued | 159 | 10/26/1999 | ASYMPTOTICALLY ZERO POWER DISSIPATION GIGA-HERTZ CLOCK DISTRIBUTION NETWORK |
| <u>10895685</u> | Not Issued | 092 | 07/21/2004 | GUIDED-WAVE OPTICAL INTERCONNECTIONS EMBEDDED WITHIN A MICROELECTRONIC WAFER-LEVEL BATCH PACKAGE |
| <u>10734075</u> | 6788867 | 150 | 12/11/2003 | BACKPLANE, PRINTED WIRING BOARD, AND/OR MULTI-CHIP MODULE-LEVEL OPTICAL INTERCONNECT LAYER HAVING EMBEDDED AIR-GAP TECHNOLOGIES AND METHODS OF FABRICATION |
| <u>10699287</u> | Not Issued | 019 | 10/31/2003 | SYSTEMS AND METHODS FOR THREE-DIMENSIONAL LITHOGRAPHY AND NANO-INDENTATION |
| <u>10699230</u> | Not Issued | 071 | 10/31/2003 | CURVED METAL-POLYMER DUAL-MODE/FUNCTION OPTICAL AND ELECTRICAL INTERCONNECTS, METHODS OF FABRICATION THEREOF, AND USES THEREOF |
| <u>10647703</u> | Not Issued | 041 | 08/25/2003 | DUAL-MODE/FUNCTION OPTICAL AND ELECTRICAL INTERCONNECTS, METHODS OF FABRICATION THEREOF, AND METHODS OF USE THEREOF |
| <u>10630411</u> | Not Issued | 071 | 07/30/2003 | BACK-SIDE-OF-DIE, THROUGH-WAFER GUIDED-WAVE OPTICAL CLOCK DISTRIBUTION NETWORKS, METHOD OF FABRICATION THEREOF, AND USES THEREOF |
| <u>10430670</u> | Not | 041 | 05/05/2003 | DEVICES HAVING COMPLIANT |

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|-----------------|------------|-----|------------|---|---------------------|
| | Issued | | | WAFER-LEVEL INPUT/OUTPUT INTERCONNECTIONS AND PACKAGES USING PILLARS AND METHODS OF FABRICATION THEREOF | D. |
| <u>10390873</u> | Not Issued | 071 | 03/17/2003 | HIGH INPUT/OUTPUT DENSITY OPTOELECTRONIC PROBE CARD FOR WAFER-LEVEL TEST OF ELECTRICAL AND OPTICAL INTERCONNECT COMPONENTS, METHODS OF FABRICATION, AND METHODS OF USE | MEINDL, JAMES D. |
| <u>10285034</u> | Not Issued | 071 | 10/31/2002 | DEVICES HAVING COMPLIANT WAFER-LEVEL PACKAGES WITH PILLARS AND METHODS OF FABRICATION | MEINDL, JAMES D. |
| <u>10272925</u> | Not Issued | 161 | 10/17/2002 | CONTROLLING CIRCUIT POWER CONSUMPTION THROUGH SUPPLY VOLTAGE CONTROL | MEINDL, JAMES D. |
| <u>10272672</u> | Not Issued | 161 | 10/17/2002 | CONTROLLING CIRCUIT POWER CONSUMPTION THROUGH BODY VOLTAGE CONTROL | MEINDL, JAMES D. |
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| <u>10135314</u> | Not Issued | 164 | 04/29/2002 | BACKPLANE, PRINTED WIRING BOARD, AND/OR MULTI-CHIP MODULE-LEVEL OPTICAL INTERCONNECT LAYER HAVING EMBEDDED AIR-GAP TECHNOLOGIES AND METHODS OF FABRICATION | MEINDL, JAMES D. |
| <u>10074420</u> | 6785458 | 150 | 02/11/2002 | GUIDED-WAVE OPTICAL INTERCONNECTIONS EMBEDDED WITHIN A MICROELECTRONIC WAFER- LEVEL BATCH PACKAGE | MEINDL, JAMES D. |
| <u>10074067</u> | 6807352 | 150 | 02/11/2002 | OPTICAL WAVEGUIDES WITH EMBEDDED AIR-GAP CLADDING LAYER AND METHODS OF FABRICATION THEREOF | MEINDL, JAMES D. |

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| <u>09993100</u> | 6690081 | 150 | 11/19/2001 | COMPLIANT WAFER-LEVEL PACKAGING DEVICES AND METHODS OF FABRICATION | MEINDL, JAMES |
| <u>09848935</u> | 6606432 | 150 | 05/03/2001 | PHASE MASK CONSISTING OF AN ARRAY OF MULTIPLE DIFFRACTIVE ELEMENTS FOR SIMULTANEOUS ACCURATE FABRICATION OF LARGE ARRAYS OF OPTICAL COUPLERS AND METHOD FOR MAKING SAME | MEINDL, JAMES D. |
| <u>09697031</u> | 6528349 | 150 | 10/26/2000 | MONOLITHICALLY-FABRICATED COMPLIANT WAFER-LEVEL PACKAGE WITH WAFER LEVEL RELIABILITY AND FUNCTIONALITY TESTABILITY | MEINDL, JAMES D. |
| <u>06570133</u> | Not Issued | 161 | 01/12/1984 | COMPACT MOS STRUCTURE USING TRANSVERSE POLYCRYSTALLINE SILICON TRANSISTOR | MEINDL, JAMES D. |
| <u>06559158</u> | Not Issued | 169 | 12/07/1983 | COMPACT MOS STRUCTURE USING TRANSVERSE POLYCRYSTALLINE SILICON TRANSISTOR | MEINDL, JAMES A. |

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Last Name = GAYLORD

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| Application# | Patent# | Status | Date Filed | Title | Inventor Name |
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| <u>60611449</u> | Not Issued | 020 | 09/20/2004 | APPARATUS/METHOD FOR MEASURING SINGLE-ANGLE PLANE-WAVE TRANSMITTANCES/REFLECTANCES OF MICRO-OPTIC AND NANO-OPTIC STRUCTURES/DEVICES | GAYLORD, THOMAS |
| <u>60605860</u> | Not Issued | 020 | 08/31/2004 | OPTICAL INTERCONNECTS IN MICROELECTRONICS BASED ON AZIMUTHALLY ASYMMETRIC LONG-PERIOD FIBER GRATING COUPLERS | GAYLORD, THOMAS K. |
| <u>60541813</u> | Not Issued | 159 | 02/04/2004 | GUIDED-MODE-RESONANCE-GRAFTING-COUPLED SUBWAVELLENGTH APERTURE | GAYLORD, THOMAS K. |
| <u>60538119</u> | Not Issued | 159 | 01/21/2004 | MICRO INTERFEROMETRIC OPTICAL COMPUTERD TOMOGRAPHY | GAYLORD, THOMAS |
| <u>60506381</u> | Not Issued | 159 | 09/27/2003 | SINGLE-POINT TWO-WAVEPLATE COMPENSATOR FOR OPTICAL RETARDATION, THICKNESS, AND REFRACTIVE INDEX MEASUREMENT | GAYLORD, THOMAS |
| <u>60506037</u> | Not Issued | 159 | 09/25/2003 | HIGH-ACCURACY SINGLE-POINT AND FULL-FIELD PHASE-STEPPING TWO-WAVEPLATE COMPENSATOR FOR OPTICAL RETARDATION MAGNITUDE, RETARDATION ORIENTATION, THICKNESS, AND REFRACTIVE INDEX MEASURE | GAYLORD, THOMAS |
| <u>60506014</u> | Not Issued | 159 | 09/25/2003 | FULL-FIELD AUTOMATED TWO-WAVEPLATE COMPENSATOR FOR OPTICAL RETARDATION MAGNITUDE, RETARDATION ORIENTATION, THICKNESS, AND | GAYLORD, THOMAS |

| | | | | REFRACTIVE INDEX MEASUREMENT | |
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| <u>60505973</u> | Not Issued | 159 | 09/24/2003 | APPARATUS/METHOD FOR MEASURING SINGLE-ANGLE PLANE-WAVE TRANSMITTANCES/REFLECTANCES OF MICRO-OPTIC AND NANO-OPTIC STRUCTURES/DEVICES | GAYLORD, THOMAS |
| <u>60399975</u> | Not Issued | 159 | 07/31/2002 | UNFOCUSED GUIDED-WAVE OPTICAL CLOCK DISTRIBUTION NETWORK AND METHOD | GAYLORD, THOMAS K. |
| <u>60365443</u> | Not Issued | 159 | 03/19/2002 | HIGH-I/O DENSITY OPTOELECTRONIC PROBE CARD FOR WAFER-LEVEL TESTS OF ELECTRICAL AND OPTICAL INTERCONNECT COMPONENTS AND METHODS OF FABRICATION | GAYLORD, THOMAS K. |
| <u>60363057</u> | Not Issued | 159 | 03/11/2002 | MONOLITHIC CHIP-LEVEL OPTICAL WAVEGUIDES FORMED FROM LOW-K NANO AIR-GAP MATERIALS AND METHODS | GAYLORD, THOMAS K. |
| <u>60290118</u> | Not Issued | 159 | 05/10/2001 | MONOLITHIC CHIP-LEVEL OPTICAL WAVEGUIDES FORMED FROM A LOW-K NANO AIR GAP MATERIALS AND METHODS | GAYLORD, THOMAS K. |
| <u>60287440</u> | Not Issued | 159 | 04/30/2001 | PASSIVE THIN-FILM INTEGRATED OPTICAL GUIDED WAVE INTERCONNECTION LAYER USING AIR-GAP AND VOLUME GRATING COUPLER TECHNOLOGIES FOR MULTI-CHIP MODULE, PRINTED WIRING BOARD, AND BACKPLANE APPLICATIONS AND METHOD | GAYLORD, THOMAS K. |
| <u>60268143</u> | Not Issued | 159 | 02/11/2001 | SINGLE-SPLIT-REGION OPTICAL WAVEGUIDE H-TREE DISTRIBUTION FOR INTRA-CHIP AND INTRA-BOARD/INTER-CHIP GUIDED-WAVE OPTICAL CLOCK AND DATA DISTRIBUTION | GAYLORD, THOMAS K. |
| <u>60268142</u> | Not Issued | 159 | 02/11/2001 | GUIDED-WAVE OPTICAL INTERCONNECTION USING VOLUME GRATING COUPLER AND AIR GAP TECHNOLOGIES EMBEDDED WITHIN A MICROELECTRIC PACKAGE | GAYLORD, THOMAS K. |
| <u>60243240</u> | Not Issued | 159 | 10/25/2000 | APPARATUS AND METHOD FOR DISPERSION AND DISPERSION | GAYLORD, THOMAS K |

| SLOPE COMPENSATION IN OPTICAL FIBER | | | | | |
|-------------------------------------|------------|-----|------------|---|--------------------|
| <u>60242863</u> | Not Issued | 159 | 10/25/2000 | OPTICAL FIBER REFRACTIVE INDEX PROFILE MEASUREMENT METHOD AND APPARATUS | GAYLORD, THOMAS K. |
| <u>60205990</u> | Not Issued | 159 | 05/19/2000 | LONG PERIOD FIBER GRATING WAVELENGTH TUNERS/MODULATORS/SWITCHES | GAYLORD, THOMAS K. |
| <u>60201639</u> | Not Issued | 159 | 05/03/2000 | PHASE MASK | GAYLORD, THOMAS K. |
| <u>60201501</u> | Not Issued | 159 | 05/03/2000 | FIBER TUNERS/MODULATORS/SWITCHES | GAYLORD, THOMAS K. |
| <u>60201458</u> | Not Issued | 159 | 05/03/2000 | FOURIER TRANSFORM SPECTROMETER | GAYLORD, THOMAS K. |
| <u>60201447</u> | Not Issued | 159 | 05/03/2000 | FIBER GRATING SENSORS | GAYLORD, THOMAS K. |
| <u>60176477</u> | Not Issued | 159 | 01/17/2000 | CONSTANT-BANDWIDTH SCANNING OF MONOCHROMATORS AND SPECTROMETERS AND CONSTANT-BANDWIDTH MAINTENANCE IN OPTICAL COMMUNICATION SYSTEMS | GAYLORD, THOMAS K. |
| <u>60101850</u> | Not Issued | 159 | 09/25/1998 | AUTOMATED REFRACTIVE INDEX PROFILING SYSTEM | GAYLORD, THOMAS K. |
| <u>60060774</u> | Not Issued | 159 | 10/03/1997 | FOCUSING OR COLLIMATING DIFFRACTIVE GRATING COUPLER AND METHOD FOR DESIGNING COUPLER AND METHOD | GAYLORD, THOMAS K. |
| <u>11040418</u> | Not Issued | 030 | 01/21/2005 | INTERFEROMETRIC OPTICAL TOMOGRAPHY | GAYLORD, THOMAS K. |
| <u>10950048</u> | Not Issued | 030 | 09/24/2004 | PERFORMING RETARDATION MEASUREMENTS | GAYLORD, THOMAS K. |
| <u>10949855</u> | Not Issued | 030 | 09/24/2004 | PERFORMING RETARDATION MEASUREMENTS | GAYLORD, THOMAS K. |
| <u>10949602</u> | Not Issued | 030 | 09/24/2004 | PERFORMING RETARDATION MEASUREMENTS | GAYLORD, THOMAS K. |
| <u>10895685</u> | Not Issued | 092 | 07/21/2004 | GUIDED-WAVE OPTICAL INTERCONNECTIONS EMBEDDED WITHIN A MICROELECTRONIC WAFER-LEVEL BATCH PACKAGE | GAYLORD, THOMAS K. |
| <u>10886800</u> | Not Issued | 094 | 07/08/2004 | OPTICAL FIBER GRATINGS WITH AZIMUTHAL REFRACTIVE INDEX PERTURBATION AND DEVICES FOR TUNING, ATTENUATING, SWITCHING, AND MODULATING | GAYLORD, THOMAS K. |

| OPTICAL SIGNALS | | | | | |
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| <u>10734075</u> | 6788867 | 150 | 12/11/2003 | BACKPLANE, PRINTED WIRING BOARD, AND/OR MULTI-CHIP MODULE-LEVEL OPTICAL INTERCONNECT LAYER HAVING EMBEDDED AIR-GAP TECHNOLOGIES AND METHODS OF FABRICATION | GAYLORD, THOMAS K. |
| <u>10630411</u> | Not Issued | 071 | 07/30/2003 | BACK-SIDE-OF-DIE, THROUGH-WAFER GUIDED-WAVE OPTICAL CLOCK DISTRIBUTION NETWORKS, METHOD OF FABRICATION THEREOF, AND USES THEREOF | GAYLORD, THOMAS K. |
| <u>10390873</u> | Not Issued | 071 | 03/17/2003 | HIGH INPUT/OUTPUT DENSITY OPTOELECTRONIC PROBE CARD FOR WAFER-LEVEL TEST OF ELECTRICAL AND OPTICAL INTERCONNECT COMPONENTS, METHODS OF FABRICATION, AND METHODS OF USE | GAYLORD, THOMAS K. |
| <u>10142601</u> | Not Issued | 094 | 05/10/2002 | OPTICAL WAVEGUIDES FORMED FROM NANO AIR-GAP INTER-LAYER DIELECTRIC MATERIALS AND METHODS OF FABRICATION THEREOF | GAYLORD, THOMAS K. |
| <u>10135314</u> | Not Issued | 164 | 04/29/2002 | BACKPLANE, PRINTED WIRING BOARD, AND/OR MULTI-CHIP MODULE-LEVEL OPTICAL INTERCONNECT LAYER HAVING EMBEDDED AIR-GAP TECHNOLOGIES AND METHODS OF FABRICATION | GAYLORD, THOMAS K. |
| <u>10074420</u> | 6785458 | 150 | 02/11/2002 | GUIDED-WAVE OPTICAL INTERCONNECTIONS EMBEDDED WITHIN A MICROELECTRONIC WAFER-LEVEL BATCH PACKAGE | GAYLORD, THOMAS K. |
| <u>10074067</u> | 6807352 | 150 | 02/11/2002 | OPTICAL WAVEGUIDES WITH EMBEDDED AIR-GAP CLADDING LAYER AND METHODS OF FABRICATION THEREOF | GAYLORD, THOMAS K. |
| <u>09860790</u> | 6832023 | 150 | 05/18/2001 | OPTICAL FIBER GRATINGS WITH AZIMUTHAL REFRACTIVE INDEX PERTURBATION, METHOD OF FABRICATION, AND DEVICES FOR TUNING, ATTENUATING, SWITCHING, AND MODULATING OPTICAL SIGNALS | GAYLORD, THOMAS K. |

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| <u>09848935</u> | 6606432 | 150 | 05/03/2001 | PHASE MASK CONSISTING OF AN ARRAY OF MULTIPLE DIFFRACTIVE ELEMENTS FOR SIMULTANEOUS ACCURATE FABRICATION OF LARGE ARRAYS OF OPTICAL COUPLERS AND METHOD FOR MAKING SAME | GAYLORD, THOMAS K. |
| <u>09848925</u> | 6542668 | 150 | 05/03/2001 | VERY-HIGH-TEMPERATURE-STABLE FIBER GRATING-BASED SENSOR | GAYLORD, THOMAS K. |
| <u>09165822</u> | 6285813 | 150 | 10/02/1998 | DIFFRACTIVE GRATING COUPLER AND METHOD | GAYLORD, THOMAS K. |
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